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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/789,992

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Sang Woon Suh

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EXAMINER

ALUNKAL, THOMAS D

ART UNIT

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2627

MAIL DATE

DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/789,992	Applicant(s) SUH ET AL.	
	Examiner THOMAS D. ALUNKAL	Art Unit 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 April 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,5-8,10,11,13,15,17-20,22-24 and 41-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,5-8,10,11,13,15,17-20,22-24 and 41-48 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 4/3/09 have been fully considered but they are not persuasive.

Regarding applicant's arguments beginning on page 10 of Remarks, the applicant argues that Sako et al. (hereafter Sako)(WO 02/37493)(US 7,215,610) does not disclose all of the claimed limitations of amended independent claims 1, 13, 20, and 42. On page 11, the applicant argues that "Sako does not disclose selecting at least one of wobbled or straight pits as the physical mark. Sako only discloses a first method of recording straight pits and then an entirely different second method used to record encrypt key information by forming wobbled pits." However, the claims only require that "the pit type selected from at least one of wobbled pits and straight pits in a specific area of the lead-in area not writable by end-user recorders". More specifically, the physical mark information is recorded as straight pits or wobbled pits. These two instances are clearly disclosed in Figures 11C and 11D of Sako which disclose physical mark information recorded as straight pits and wobbled pits, respectively. Therefore, based on the end users requirements, the physical mark information is recorded as either straight pits or wobbled pits.

On page 11 of Remarks, the applicant argues that "Sako does not disclose if the wobbled pits are selected, a modulated unique pattern in which a part of the wobbled pits is shifted from the central line of the wobbled pits." However, Figure 11D clearly shows wobbled pits that are "shifted from a central line of the wobbled pits" (i.e., the

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track center). Therefore, Sako discloses the "modulated unique pattern" as claimed. It is further noted that Figure 11D substantially corresponds to applicant's Figure 4, which illustrates a wobbled pit type.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5, 6, 13, 20, and 42 are rejected under 35 U.S.C. 102(b) as being anticipated by Sako et al. (hereafter Sako)(WO 02/37493).

US Patent 7,215,610 is relied upon as the English equivalent to the WO document Sako et al.

Regarding claim 1, Sako discloses a computer readable medium including a lead-in area, a data area and a lead-out area (Figure 10), comprising: physical mark information recorded as a pit type, the pit type selected from at least one of wobbled pits and straight pits in a specific area of the lead-in area not writable by end user recorders (Figures 11A-11D, Column 17, line 15+ and Column 18, lines 23-56), wherein the physical mark information provides control information for controlling a reproduction of data recorded as straight pits on the data area and is formed along a modulated unique pattern (Column 18, lines 23-34 where the encrypted data in the lead-in area is used for the decryption of data in the data area of the disc), and wherein if the pit type is selected

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to be wobbled pits, at least a part of the wobbled pits forming the physical mark information is shifted from a central line of the wobbled pits (Figure 11D where the wobbled pits are shifted from a central line of the wobbled pits).

Regarding claim 5, Sako discloses wherein the modulated unique pattern represents encryption information used in encrypting data of the data area (Column 18, lines 10-34).

Regarding claim 6, Sako discloses wherein the control information further includes copy management information indicating whether duplication of the data is allowed (Column 18, lines 30+).

Regarding claim 13, this claim is drawn to the apparatus for forming the recording medium of claim 1. Sako discloses such an apparatus in Figure 3. Additionally, claim 13 recites limitations substantially similar to those recited in claims 1 and 5. Thus, claim 13 is rejection for the reasons provided above in claim 1 and 5, in addition to Figure 3 of Sako.

Regarding claim 20, this claim is drawn to the method of reproducing data from the recording medium of claim 1. Sako discloses the reproducing apparatus which performs the method steps in Figure 12. Additionally, claim 20 recites limitations substantially similar to those recited in claim 1. Thus, claim 20 is rejected for the reasons provided above in claim 1, in addition to Figure 12 of Sako.

Apparatus claim 42 is drawn to the apparatus corresponding to the method of using same as claimed in claim 20. Therefore apparatus claim 42 corresponds to method claim 20, and is rejected for the same reasons of anticipation as used above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sako in view Kuroda (US 6,683,844) as applied in the Office Action dated 1/7/09.

Claims 8, 10, 15, 17, 19, 22, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sako in view of Ha et al. (US 7,028,011) as applied in the Office Action dated 1/7/09.

Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sako in view of Ha et al. (US 7,028,011), as applied in the Office Action dated 1/7/09.

Claims 11, 18, 23, 24, 41, 44, 45, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sako in view of Ha et al. (US 7,028,011), and further in view of applicant's admitted prior art (unchallenged Official Notice) as applied in the Office Action dated 1/7/09.

Claim 48 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sako in view of Ha et al. (US 7,028,011), as applied in the Office Action dated 1/7/09.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOMAS D. ALUNKAL whose telephone number is (571)270-1127. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571)272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas D Alunkal/
Examiner, Art Unit 2627

/Wayne Young/
Supervisory Patent Examiner, Art Unit 2627